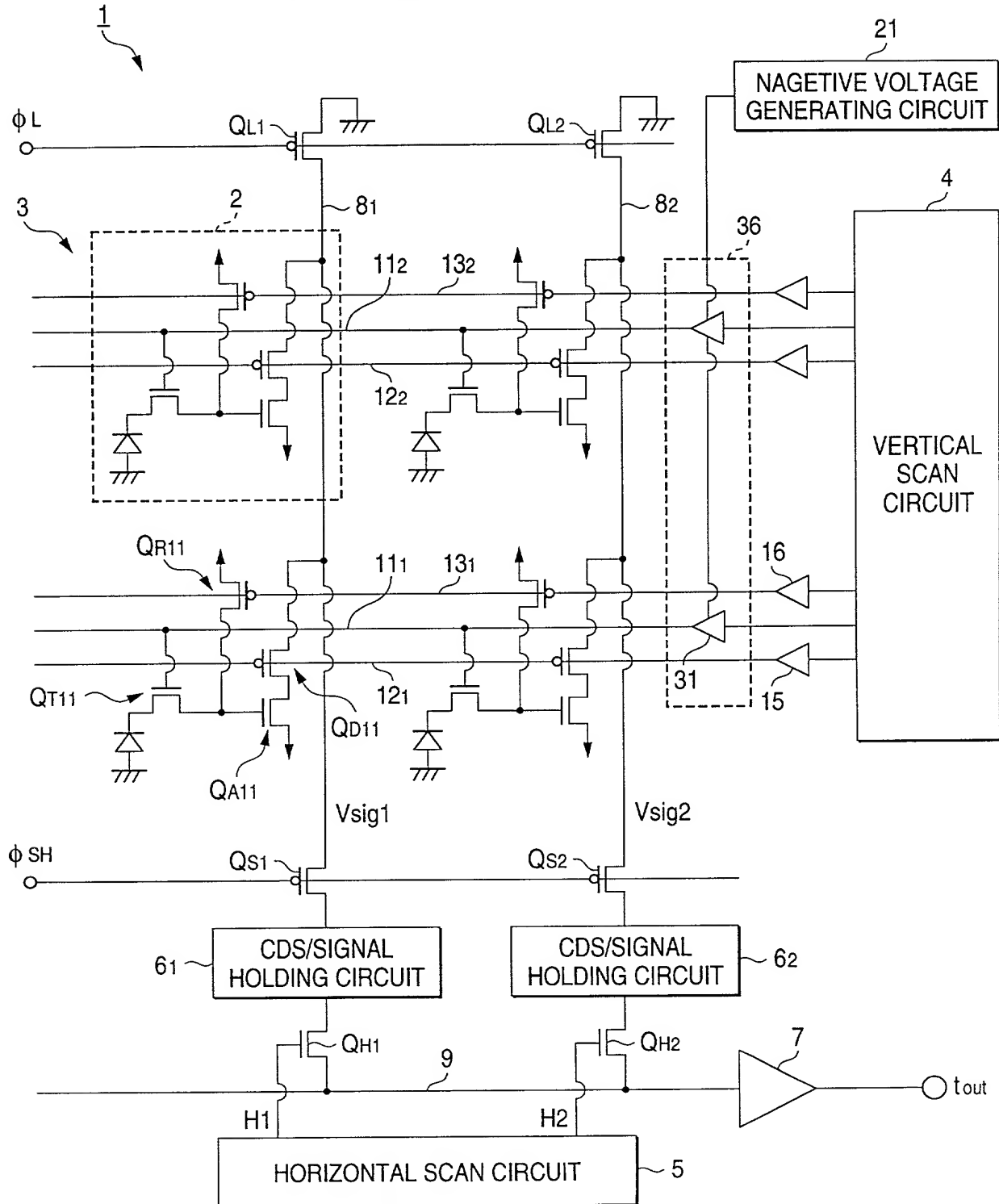


FIG. 1

DIAGRAM OF CONSTRUCTION OF EMBODIMENT



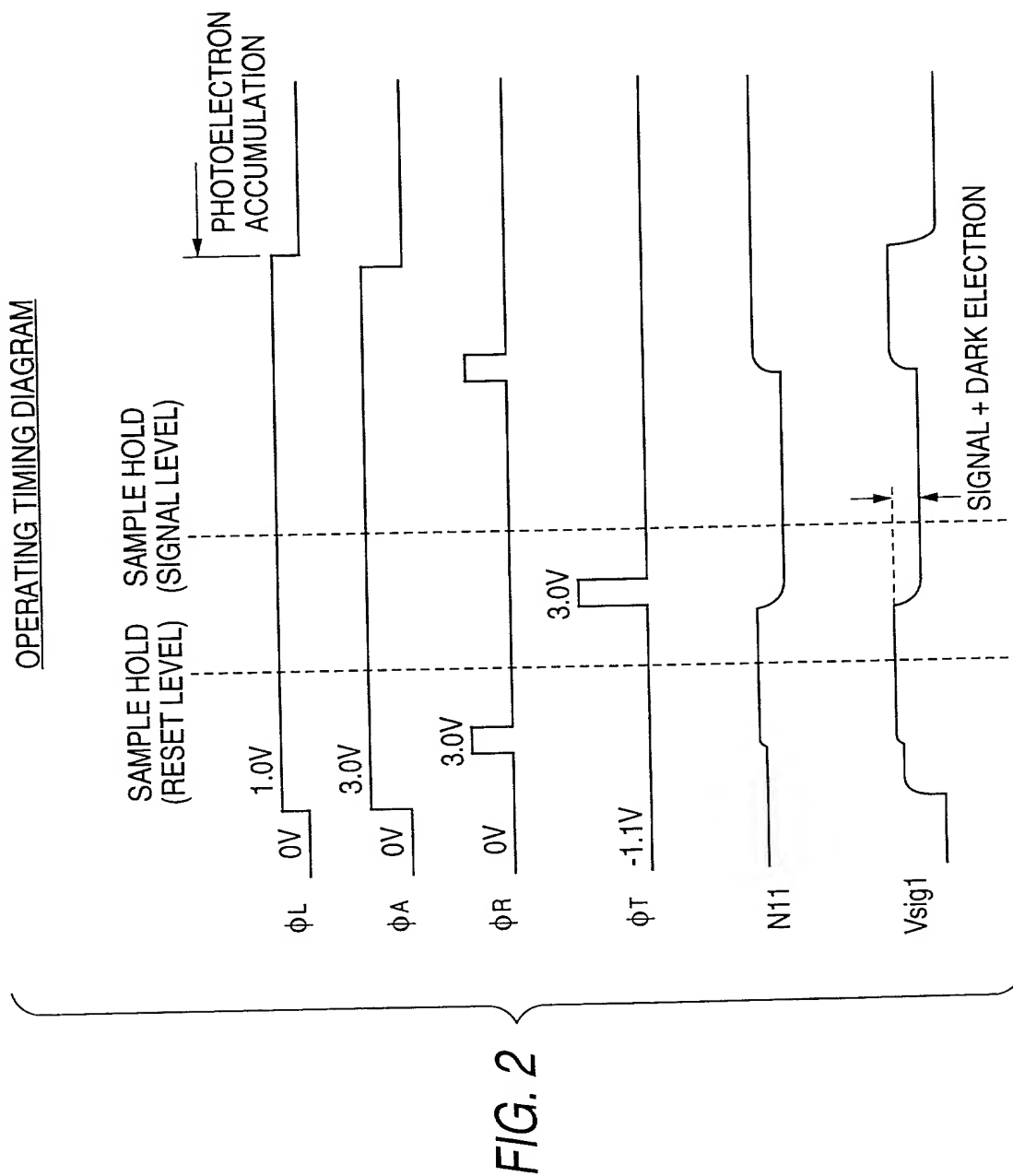


FIG. 2

FIG. 3

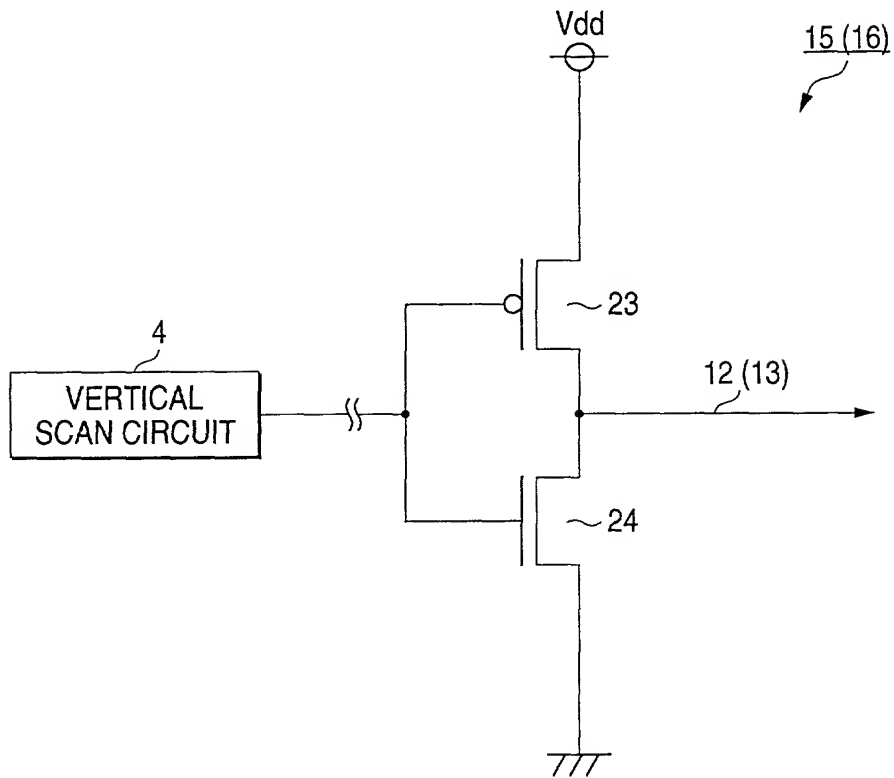
EXAMPLE OF BUFFER CIRCUIT (15, 16)

FIG. 4

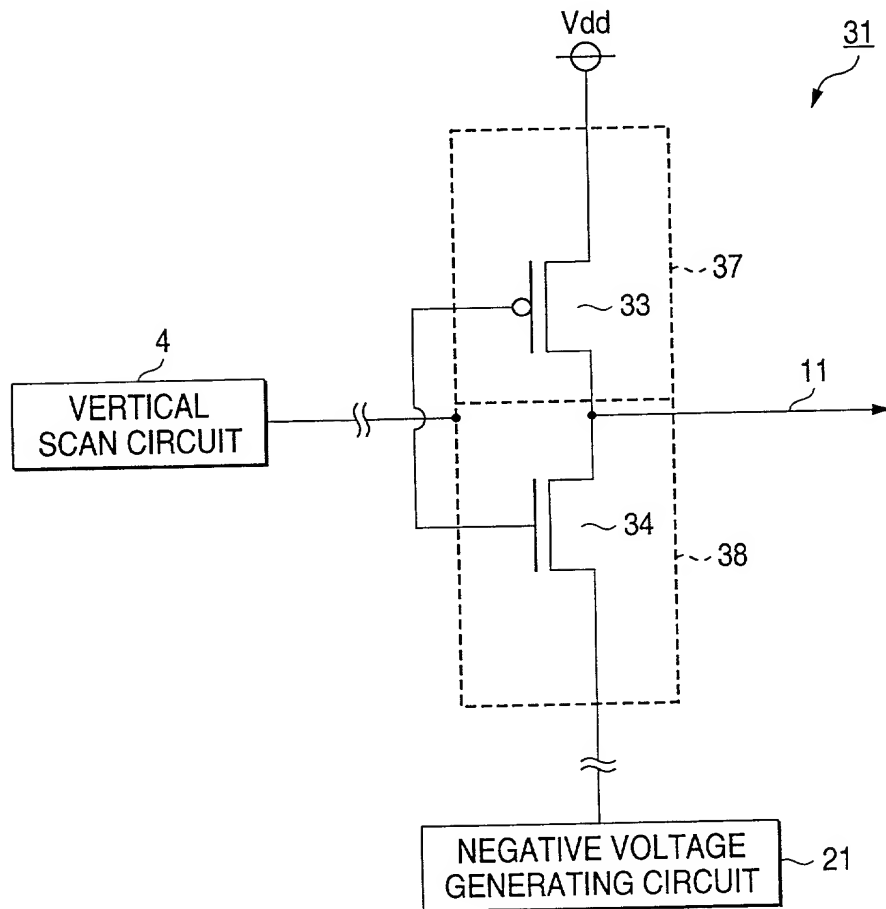
EXAMPLE OF BUFFER CIRCUIT (31)

FIG. 5

CROSS-SECTIONAL VIEW OF PHOTODIODE AND
TRANSFER TRANSISTOR OF FIRST EMBODIMENT

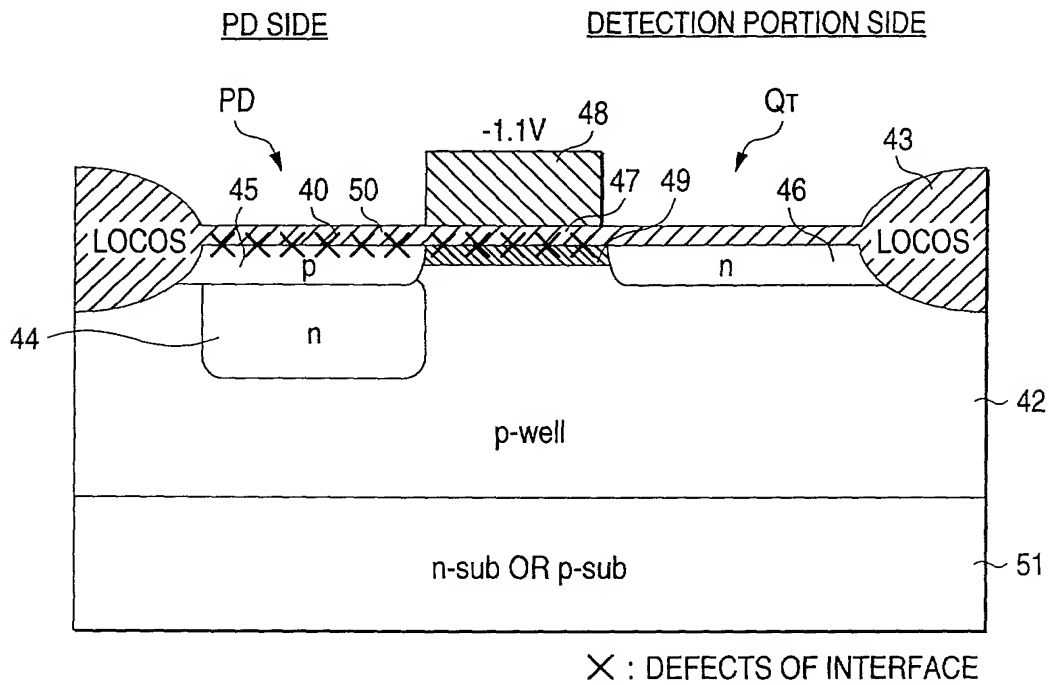


FIG. 6

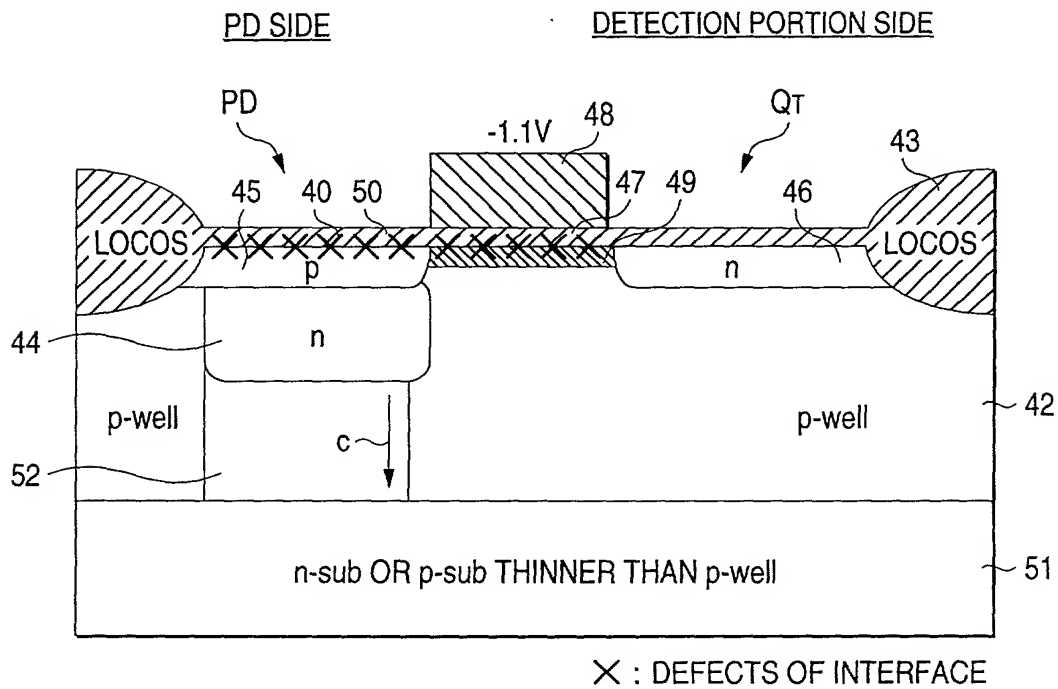
CROSS-SECTIONAL VIEW OF PHOTODIODE AND
TRANSFER TRANSISTOR OF SECOND EMBODIMENT

FIG. 7

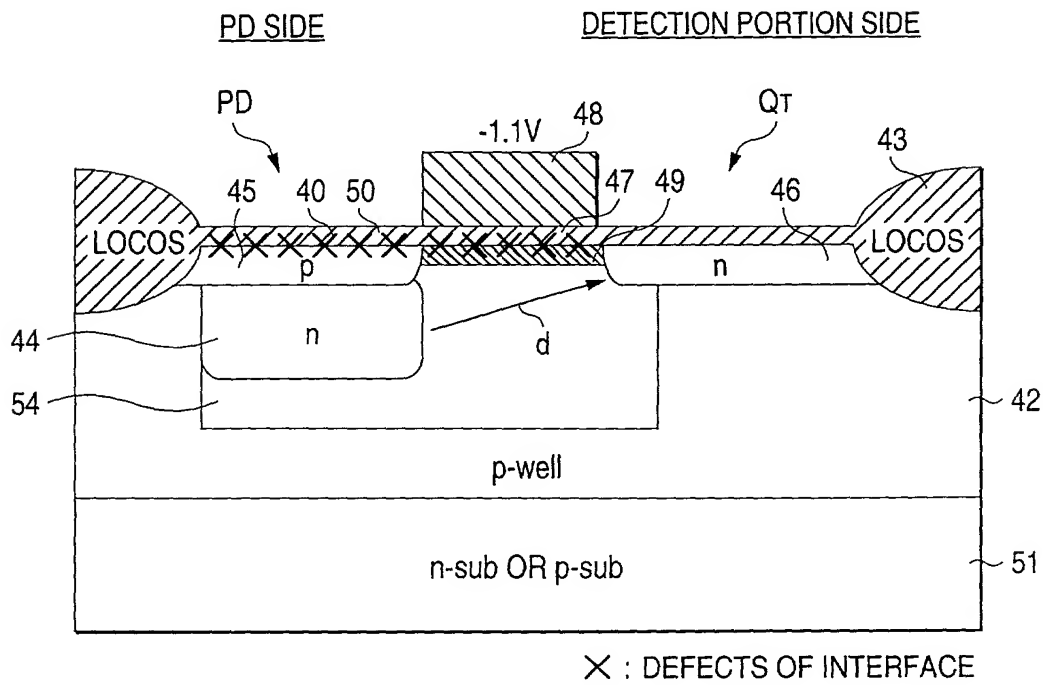
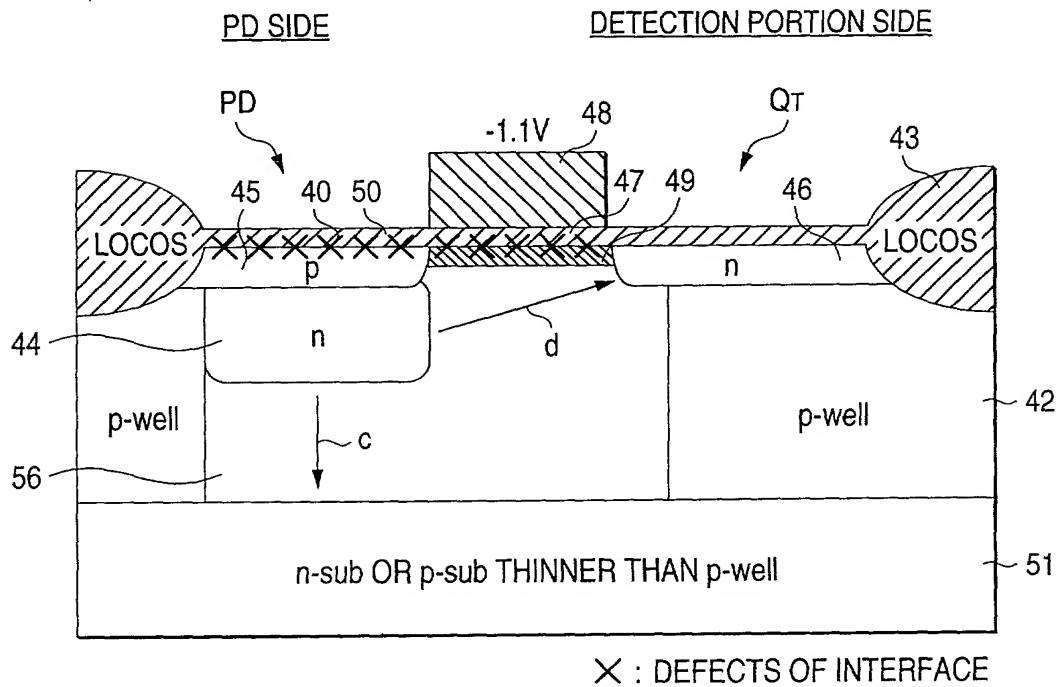
CROSS-SECTIONAL VIEW OF PHOTODIODE AND
TRANSFER TRANSISTOR OF THIRD EMBODIMENT

FIG. 8

CROSS-SECTIONAL VIEW OF PHOTODIODE AND
TRANSFER TRANSISTOR OF FOURTH EMBODIMENT



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FIG. 9

TRANSFER GATE NEGATIVE VOLTAGE - DARK CURRENT CHARACTERISTIC

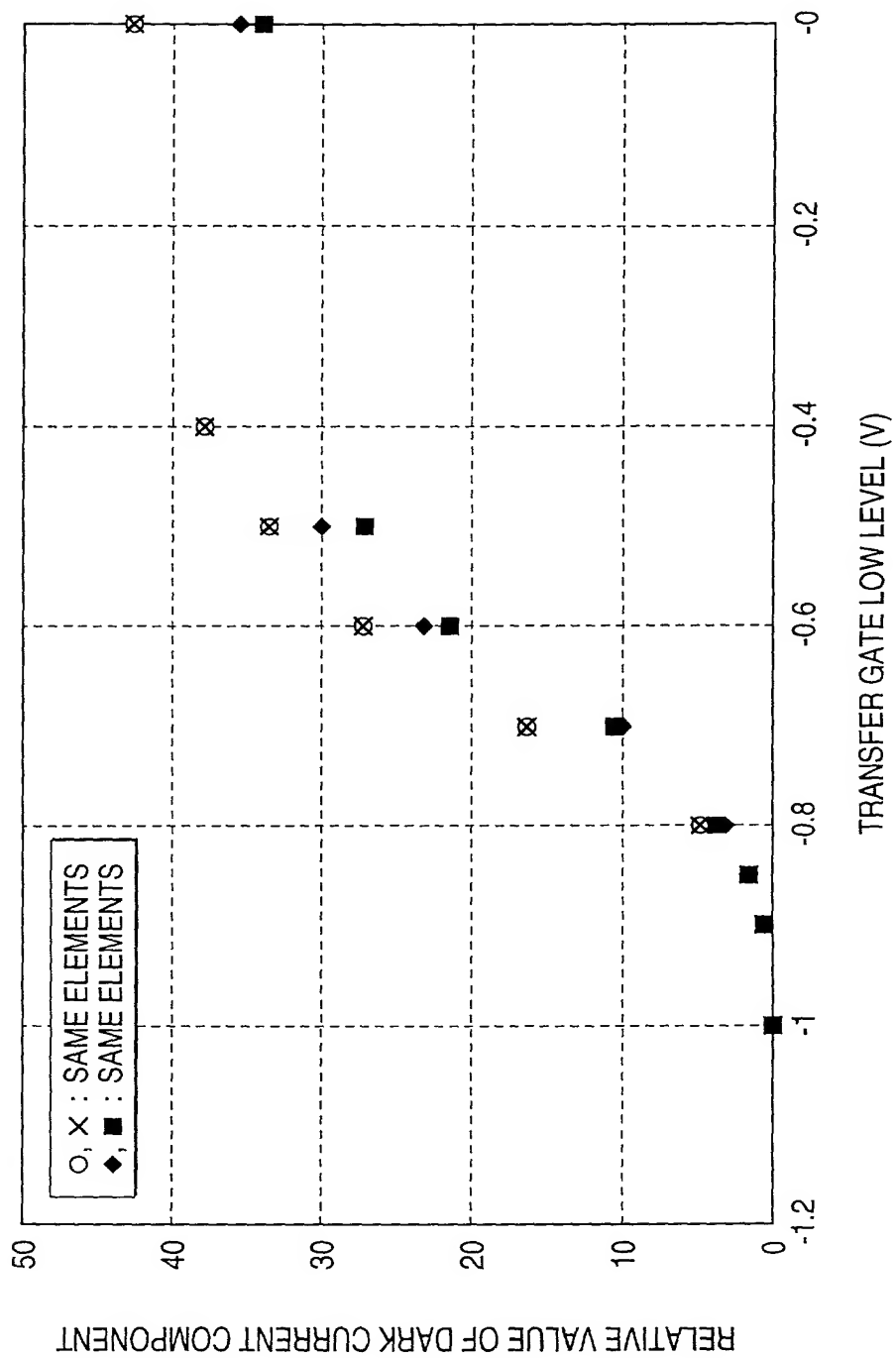


FIG. 10

DIAGRAM OF DEVICE OF DARK CURRENT

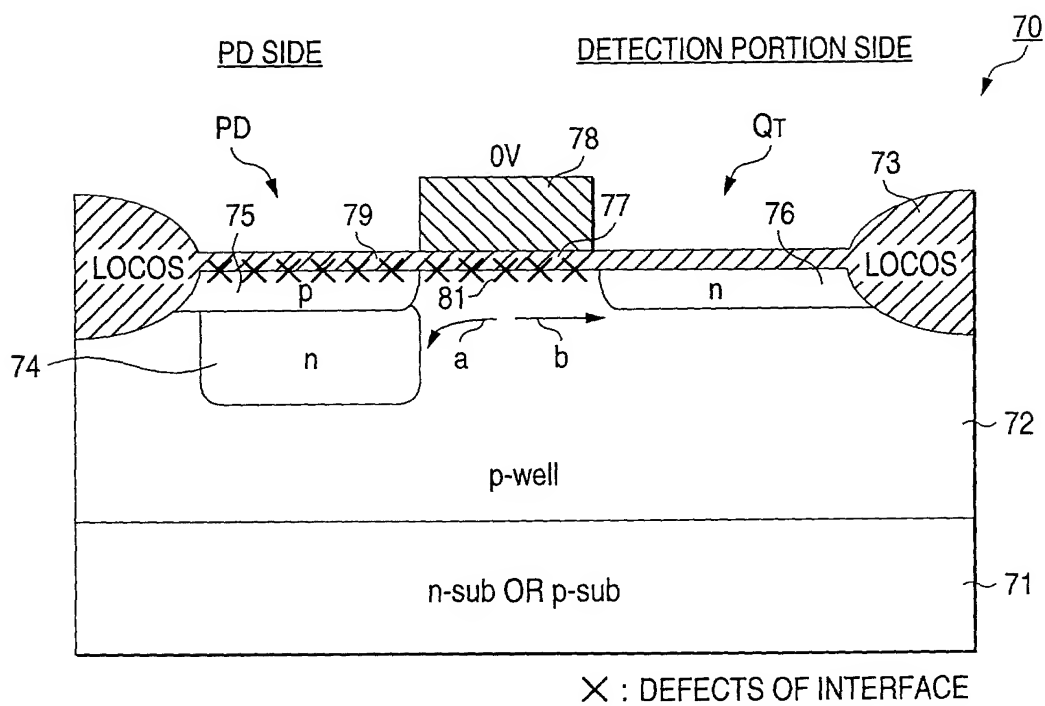


FIG. 11

CROSS-SECTIONAL VIEW OF PRIOR ART

